METROPOLITAN GOVERNMENT of NASHVILLE and DAVIDSON COUNTY TENNESSEE

Metropolitan Health Department Pollution Control Division 311 - 23rd Avenue North Nashville, Tennessee 37203 Telephone: (615) 340-5653

(615) 340-2142

FAX:

PART 70 OPERATING PERMIT APPLICATION STORAGE TANKS

1.	Facility Name:	2. Storage Tank Nun	nber	3. Stack or	gitive Release Point No.:			
4.	Emission source number, description and source classification code(s):							
5.	Storage Tank Capacity 6	. Year of Installation	7. Tank	Height: 8	3. Tank Diameter:			
	Gallons			(Ft.)	(Ft)			
9.	Tank Color:	; Paint Condition:		Good:	Poor			
	Roof Color:	; Paint Condition:		Good:	Poor			
10.	Is this tank equipped with submerged fil	l pipe?	Yes	3	No			
11.	Is this tank equipped with pressure/vacu	um conservation vent?	Yes		No			
	If yes, at what pressure is it set?	(PSIG); at	what vacuum is	it set?	(PSIG)			
12.	Type of storage tank (check one):	Fixed Ro	oof;		External floating roof			
	Internal floa	ting roof;	Othe	er (specify)				
13.	For fixed roof tanks:							
	A. Tank configuration (check one):	Vertic	al (upright cylir	nder)	Horizontal			
	B. Tank roof type (check one):	Flat;			(T)			
			oof, indicate tar	nk roof height: nk roof height:	(Ft): or (Ft); and			
			indicate s	hell radius:	(Ft).			
	C. Maximum liquid height:	(Ft)	D. Averaş	ge liquid height:	(Ft).			
14.	For floating roof tanks (both internal and							
	Light rust:	De	ense rust:		Gunite lined			
15.	For external floating roof tanks:	XX7.11	. 1		P' . 1. 1			
	A. Tank construction (check one):B. Rim seal system description:	Welded	tank;		Riveted tank			
	Primary (check one):	Vapor-mounted;	Li	quid-mounted;				
	Secondary (check one):	Weather shield;	Ri	m-mounted;	None			
	C. Roof type (check one):	Pontoon roof;	De	ouble deck roof				
	D. Roof fitting types:		1 117 11					
	Access Hatch (24" Dia.Well)	Unslotted Guide-F (8" Diameter Unslotted Po	le, 21" Dia. Well)		Gauge-float Well (20" Dia.)			
	Bolted cover, gasketed	Ungasketed slidir	-		nbolted cover, ungasketed			
	Unbolted cover, gasketed	Gasketed sliding	cover		abolted cover, gasketed			
	Unbolted cover, ungasketed			Во	olted cover, gasketed			

(Continued)

15. D. Roof fitting types (indicate the number of each type):

13. D. Roof fitting types (marcate the num	iber of each type).						
Gauge Hatch/Sample Well (8" Diameter		Vacuum Breaker (10" Diameter Well)		Slotted Guide-Pole/Sample Well (8" Diameter Slotted Pole) (21" Diameter Well)				
Weighted mechanical		Weighted mechanical		Ungasketed sliding cover, without float				
Actuation gasketed		Actuation gasketed		Ungasketed sliding cover, with float				
Weighted mechanical		Weighted mechanical		Gasketed sliding cover, without float				
Actuation ungasketed		Actuation ungasketed		Gasketed sliding cover, with float				
retuinon ungustieted		rectaution ung	, show					
	1							
Roof Drain	R	oof leg (3" Diameter)		Roof Leg (2-1/2" Diameter)				
Open	Adjusta	table, Pontoon Area		Adjustable, Pontoon Area				
90% Closed	Adjusta	ıble, Center Area		Adjustable, Center Area				
	Adjustable, Double-Deck Roo			Adjustable, Double-Deck Roofs				
Fixed				Fixed				
Ī				- ***				
16. For internal floating ro		(1, 1, 1, 1, 1)	T. m. d. I.	Vanna manutal				
A. Rim seal system descri		ondary (check one):		mounted; Vapor-mounted No				
B. Number of columns: _								
C. Effective column diam	eter:	(Ft.)						
D. Deck type (check one):	·	Welded;	Bol	ted				
E. If bolted, indicate the to	otal deck seam l	ength:	(Ft.)					
F. Deck area	(Sc	quare Feet)						
G. Deck fitting types (indi	cate the number	of each type):						
Access Hatch (24" Diameter Well) Automatic Ga			ige Float Well	Ladder Well				
Bolted cover, gasketed Bolted cover,			gasketed	Sliding cover, gasketed				
Unbolted cover, gasketed Unbolted cover			r, gasketed	Sliding cover, ungasketed				
Unbolted cover, ungasketed Unbolted cover			r, ungasketed					
	-							
COLU	JMN WELL		SAMPLE PIPE OR WELL					
Built-up column-slidi	ng cover, gasket	ted	Slotted pipe-sliding cover, gasketed					
Built-up column-slidi	•		Slotted pipe-sliding cover, ungasketed					
Pipe column-flexible			Sample well-slit fabric seal, 10% open area					
Pipe column-sliding of			Stub drain, 1 inch diameter					
Pipe column-sliding of	-	d	5.00 010111,	dimileter				
1 tpc column-shaing c	over, ungaskete							
Roof Leg	or Hanger Well			Vacuum Breaker				
Adjustable	Fix		Weighted N	fechanical actuation, gasketed				
				nechanical actuation, ungasketed				

Part (1)	C4 D-4				iquid			por	
Product Stored	Storage Dates	s A	nnual Thrupu (Gal/Yr)	Molecular Weight (Lb/Lb Mole)			Molecular Weight (Lb/Lb Mole)		
Part (2)		 		1		·			
Part (2)			nimum	Maximum	Liquid Density (Lb/Gal)		Average Storage Temperature (°F)		
Product Stored	Vapor Pressure (PSIA)	_	r Pressure PSIA)	Vapor Pressure (PSIA)					
			,	, , ,			•	, ,	
9. List hazard	lous air pollutant co	onstituents be	low (attach sh	eet if additional space	needed):				
	Percent of Total					Percent of Total			
71 ! 1 NT	CAC Neverber	Liquid	Vapor	Chamia I Nama	CAC Novel		Liquid	Vapor	
Chemical Name	CAS Number	Wt. (%)	Wt. (%)	Chemical Name 6.	CAS Number	V	Vt. (%)	Wt. (%)	
· ·				7.					
"				8.					
ļ.				9.					
5.				10.					
20. Is this tank	equipped with air t	nollution con	trol equipmen	t for the purpose of ac	hieving complianc	e with	an annlice	able	
		Yes	No	t for the purpose of ac	meving compitanc	e wili	тап аррпса	ioie	
equirement?				ent form(s) APC V.1					

If yes, please identify the stack or fugitive release point(s) and pollutant(s) to be monitored for this purpose:

Page Number: _____ Revision Number: _____

23

Date of Revision:

INSTRUCTIONS FOR APC FORM V.6A:

STORAGE TANKS

Sources that are required to obtain a permit in accordance with Regulation No. 13, "Part 70 Operating Permit Program" of the Code of the Metropolitan Government of Nashville and Davidson County, Tennessee, must complete and return this form, if applicable. Applications are incomplete unless all applicable information requested herein is supplied. Failure to supply any additional information requested by the Director to enable him to act on the application may result in denial of this application. If there is additional information that will not fit on a form, please declare the information on additional sheet(s) and attach it to the back of the original.

COMPLETE ONE FORM FOR EACH STORAGE TANK FOR WHICH AN AIR POLLUTION CONTROL PERMIT IS REQUIRED (Expect for Gasoline Dispensing Facilities).

If you wish to have operating permit restrictions, please indicate this in writing. Otherwise, permit is based on 8,760 Hrs/Yr.

- **Item 2** Assign an identification number to this storage tank (e.g., T1, T2, etc.).
- **Item 7** If the tank roof is sloped, provide the average tank height.
- **Item 10** A submerged fill pipe is any fill pipe with a discharge opening which is entirely submerged when the liquid level is six inches above the tank bottom.
- **Item 13** Check the tank roof type which applies and supply the required information. the following equation can be used to calculate the tank roof height of a cone roof tank:

$$H = S \times R$$

Where H is the tank roof height, Ft.

S is the tank cone roof slope, if unknown a standard value of 0.0625 Ft/Ft can be used, Ft/Ft.

R is the tank shell radius. Ft.

The following equation can be used to calculate the tank roof height of a dome roof tank:

$$H = RR - (RR^2 - RS^2)^{0.5}$$

Where H is the tank roof height, Ft.

RR is the tank dome roof radius. Ft.

Rs is the tank shell radius, Ft.

- **Item 14** Check the shell condition which best applies if the storage tank is a floating roof type (either internal or external).
- **Item 15B** Check the appropriate rim seal type if the storage tank is an external floating roof type.
- **Item 15C** Check the appropriate roof type if the storage tank is an external floating roof type.
- **Item 15D** Indicate the total number of each appropriate roof fitting type in the space provided if the storage tank is an external floating roof tank.
- **Item 16A** Check the appropriate rim seal type if the storage tank is an internal floating roof type.
- **Item 16B** Indicate the number of fixed roof support columns if the tank is an internal floating roof type. Indicate zero support columns if the fixed roof is self supported.

INSTRUCTIONS FOR APC FORM V.6A:

STORAGE TANKS

- **Item 16C** Indicate the effective column diameter (Ft) if the storage tank is an internal floating roof type. Use the column perimeter (Ft)/3.14 or 1.1 Ft for a 9-inch by 7-inch built-up column, 0.7 Ft for 8-inch diameter pipe columns, and 1.0 if column construction details are not known.
- **Item 16D** Check the appropriate deck type if the storage tank is an internal floating roof type.
- **Item 16E** Indicate the total deck seam length if the storage tank is an internal floating roof type with a bolted deck.
- **Item 16F** Indicate the deck area if the storage tank is the internal floating roof type.
- **Item 16G** Indicate the total number of each appropriate deck fitting type in the space provided if the storage tank is an internal floating roof type.
- Item 17 Indicate the volume expansion capacity of the variable vapor space achieved by roof lifting or diaphragm flexing if the tank is a variable vapor space type.
- If the tank is used for more than one product, clearly specify each separate product. Vapor pressures should be given as true vapor pressures at the reported tank conditions. The months of storage for each product must be indicated in the "Storage Dates" column. Attach additional sheet outlining any alternative operating scenarios, or to define permit terms and conditions allowing emissions trading under a federally enforceable emissions cap to be established in the permit.
- **Item 19** For each hazardous air pollutant constituent indicate the CAS Number and the percent of total liquid weight. Do not list the percent emitted.
- Item 22 Indicate whether or not this source is subject to 40 CFR Part 64 Enhanced Monitoring Program. If the answer is yes, please indicate which stack(s) or fugitive release point(s) will require monitoring and indicate which pollutant(s) requires monitoring.

IF ANY ITEM ON THIS APPLICATION FORM IS NOT APPLICABLE TO THIS FACILITY, THE ITEM MUST BE FILLED IN WITH "NOT APPLICABLE" OR "N/A".